

MCHR2 M-L C P S K T D G S G H S G R I H Q E T H G E G K R D K I S N S E G R E N G G R G F Q M N G G S L E A E H A S R M S V L M F P N G T A S S P S S P S P S G S C G E G G C R G SSTR1

|   | TM2   |   |   |   |   |       |   |   |   |   | TM3   |   |   |   |   |        |   |   |   |   | GPRC6A |   |   |   |   | GPRC6B |   |   |   |   |   |   |   |
|---|-------|---|---|---|---|-------|---|---|---|---|-------|---|---|---|---|--------|---|---|---|---|--------|---|---|---|---|--------|---|---|---|---|---|---|---|
|   | MCHR2 |   |   |   |   | MCHRI |   |   |   |   | SSTR1 |   |   |   |   | GPRC6A |   |   |   |   | GPRC6B |   |   |   |   | GPRC6B |   |   |   |   |   |   |   |
|   | Q     | R | P | V | D | C     | N | S | E | I | F     | M | T | A | M | R      | V | Y | W | A | G      | T | C | S | D | N      | S | I | T | C | O | A | S |
| - | K     | R | P | V | D | C     | N | S | E | I | F     | M | T | A | M | R      | V | Y | W | A | G      | T | C | S | D | N      | S | I | T | C | O | A | S |
| - | R     | P | N | V | D | C     | N | S | E | I | F     | M | T | A | M | R      | V | Y | W | A | G      | T | C | S | D | N      | S | I | T | C | O | A | S |
| - | R     | P | N | V | D | C     | N | S | E | I | F     | M | T | A | M | R      | V | Y | W | A | G      | T | C | S | D | N      | S | I | T | C | O | A | S |
| - | M     | R | G | A | T | N     | L | E | I | D | E     | M | S | V | T | L      | R | H | P | R | A      | T | C | R | V | Y      | W | A | G | T | C | S |   |

|        |                           |                |     |    |    |
|--------|---------------------------|----------------|-----|----|----|
| MCHR2  | AMMAYMSEYDINAEFLWERTTRYKT | TRINITEWMASTLA | SKV | DK | V  |
| MCHR1  | YIETGAMAI                 | ATWPHISSKFK    | LA  | UP | GA |
| SSSTRI | YCCETIISYDARY             | SVANLVICE      | VA  | UP | GA |
|        |                           | KAARYR         | ER  | ER | ER |

TM5  
MCHR2 E S G A F D I T S E - D D V L Y T T Y L T T F F E L P L Y V I I I C Y T W E M Y Q Q N K D A R C C N P  
MCHR1 M S G G I R D E D T D E Y V E T A A V R I R O N T S S V A P S - - - - Q  
SSTR1 M A G N M L M I E E A Q R W I V G I L G A C L E V V V I I A K N R M V A L K G W Q - - -

MCHR2 S I N F E R V I L E Q N Y Q X M R P O N Q R R E K E I N N M G N T L K S H F  
 MCHR1 C L A P P R V Y V C E T R K R Y V L S V K P A Q G Q L R A Y S N A Q T D E E R T E S K G T  
 SSSTR1 G A N E I T E V G F I S D N E K R S F Q R M I C L S W M D N A A E P V D Y Y T A L K S R A Y S V E D F Q O P E N L E S G

ESTR1

FIG. 1

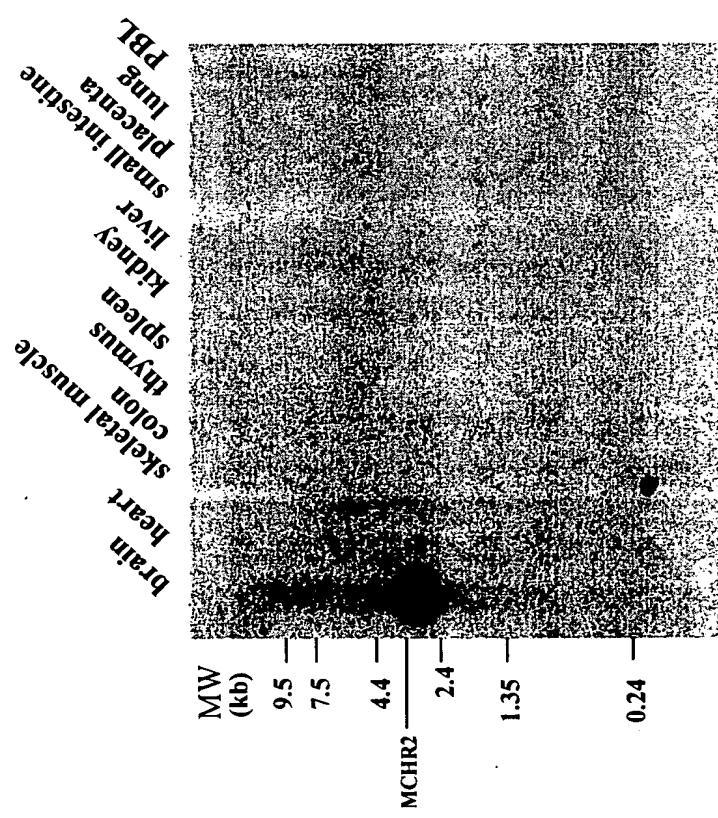


FIG. 2A.

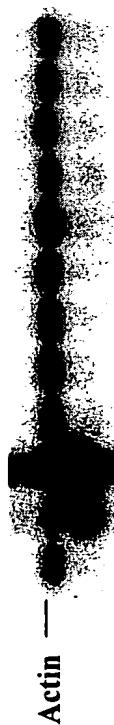


FIG. 2B.

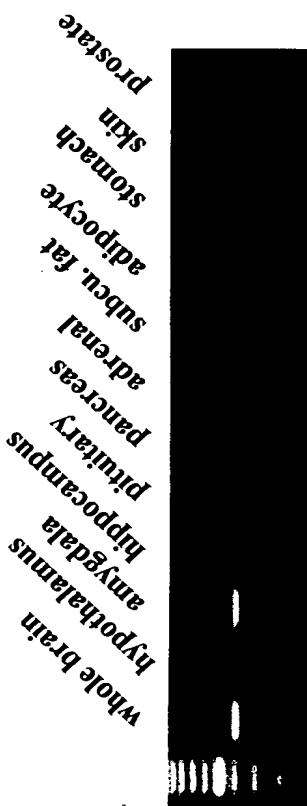


FIG. 2C.

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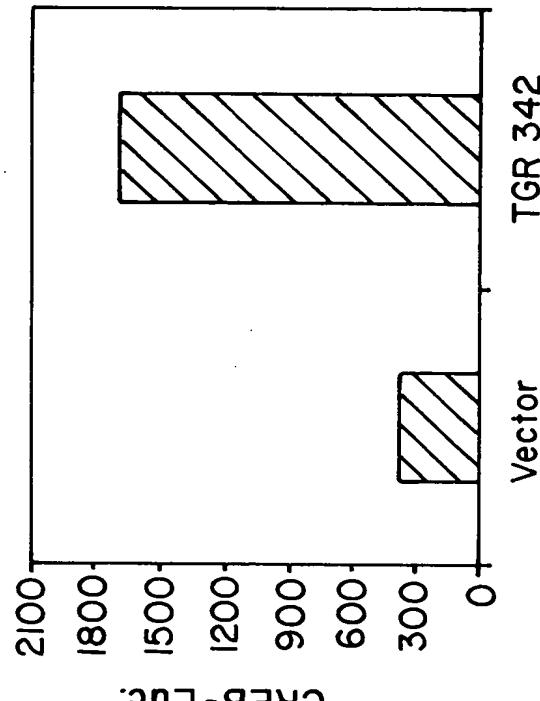


FIG 3B.

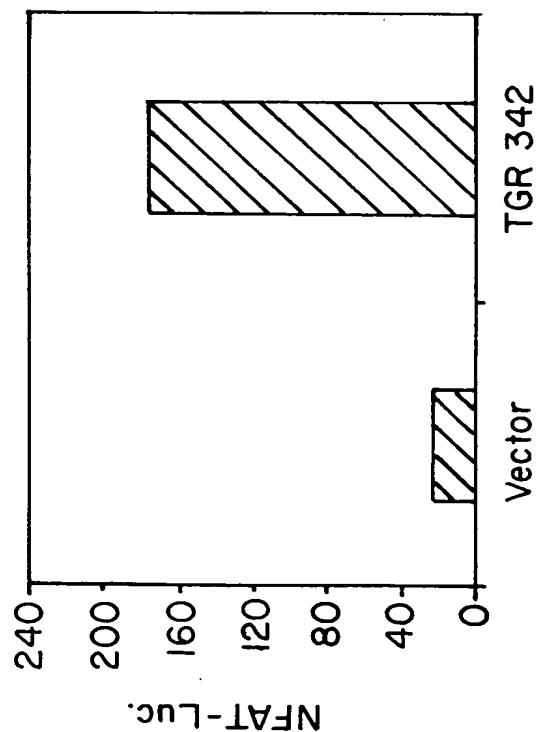


FIG 3A.

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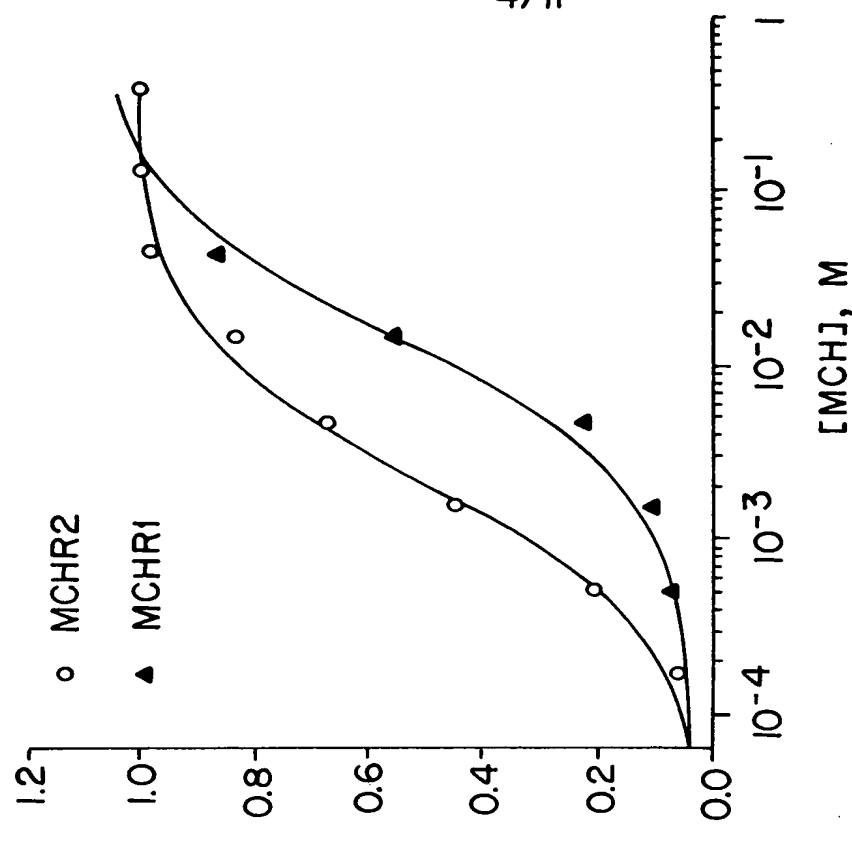


FIG. 4B.

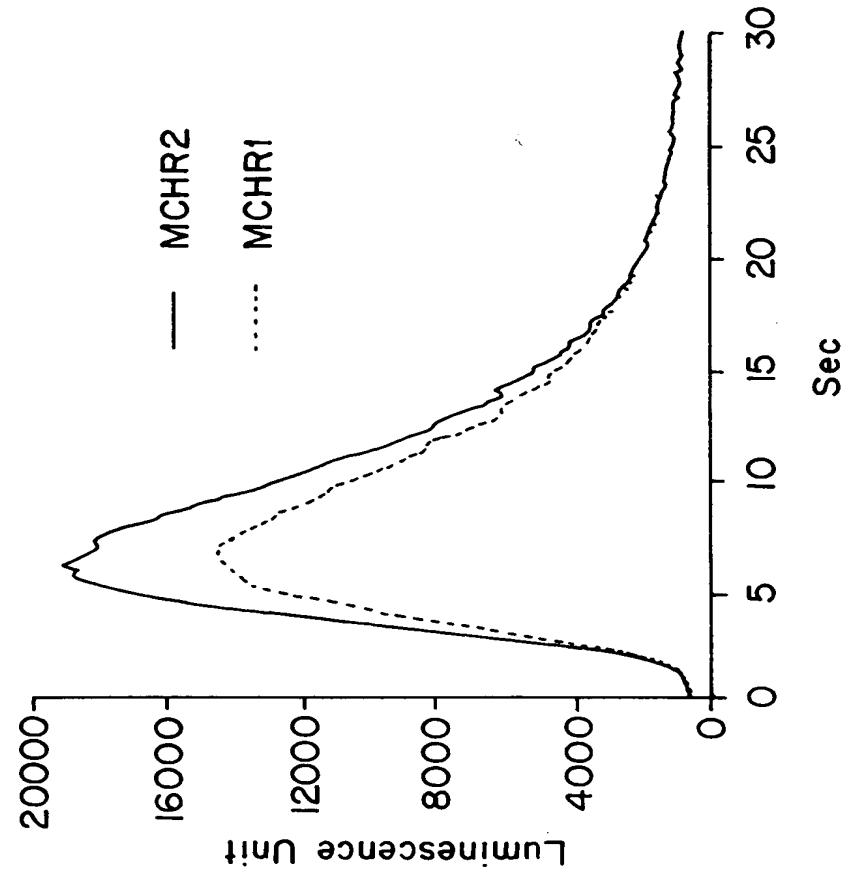


FIG. 4A.

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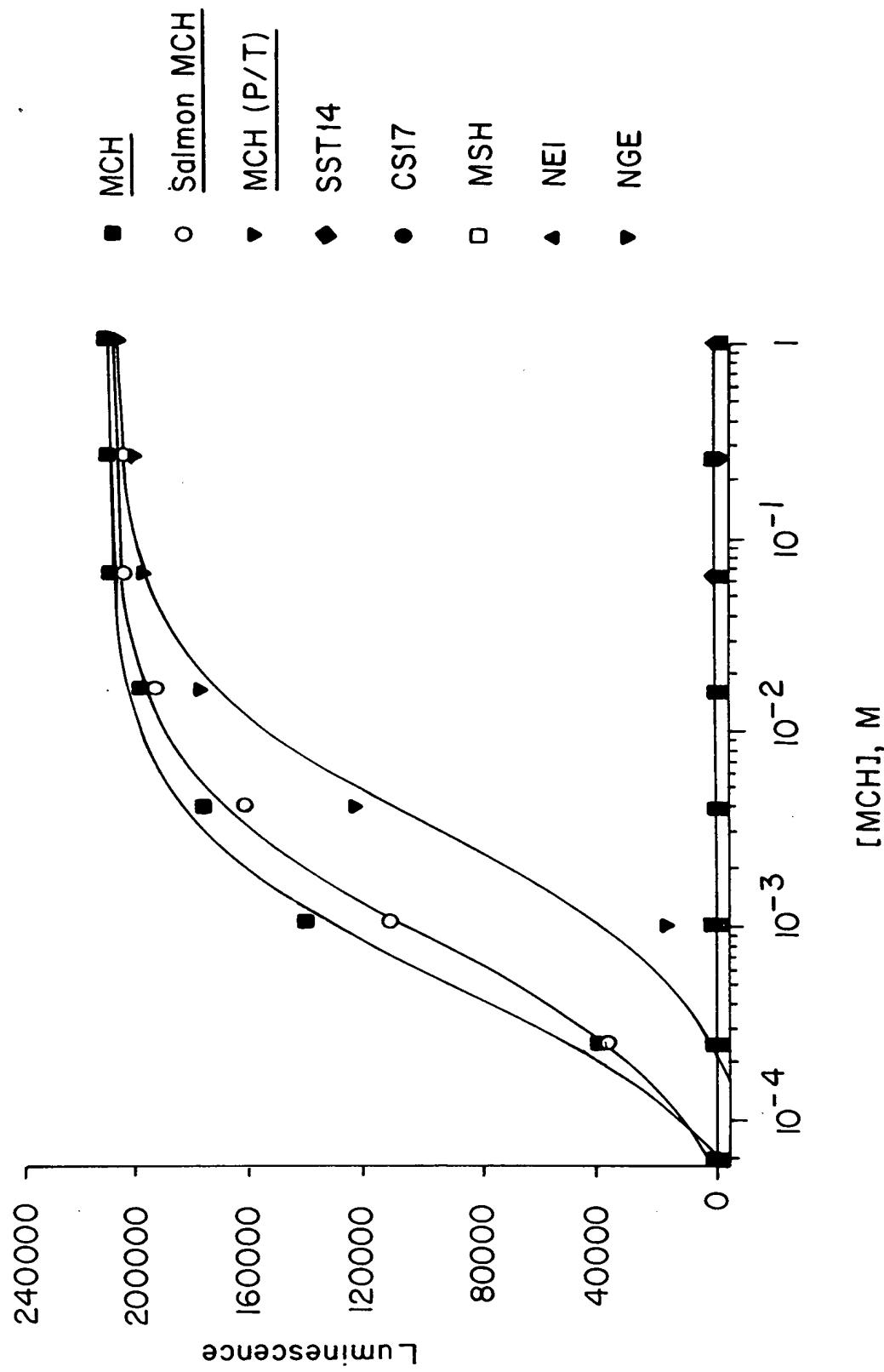


FIG. 5.

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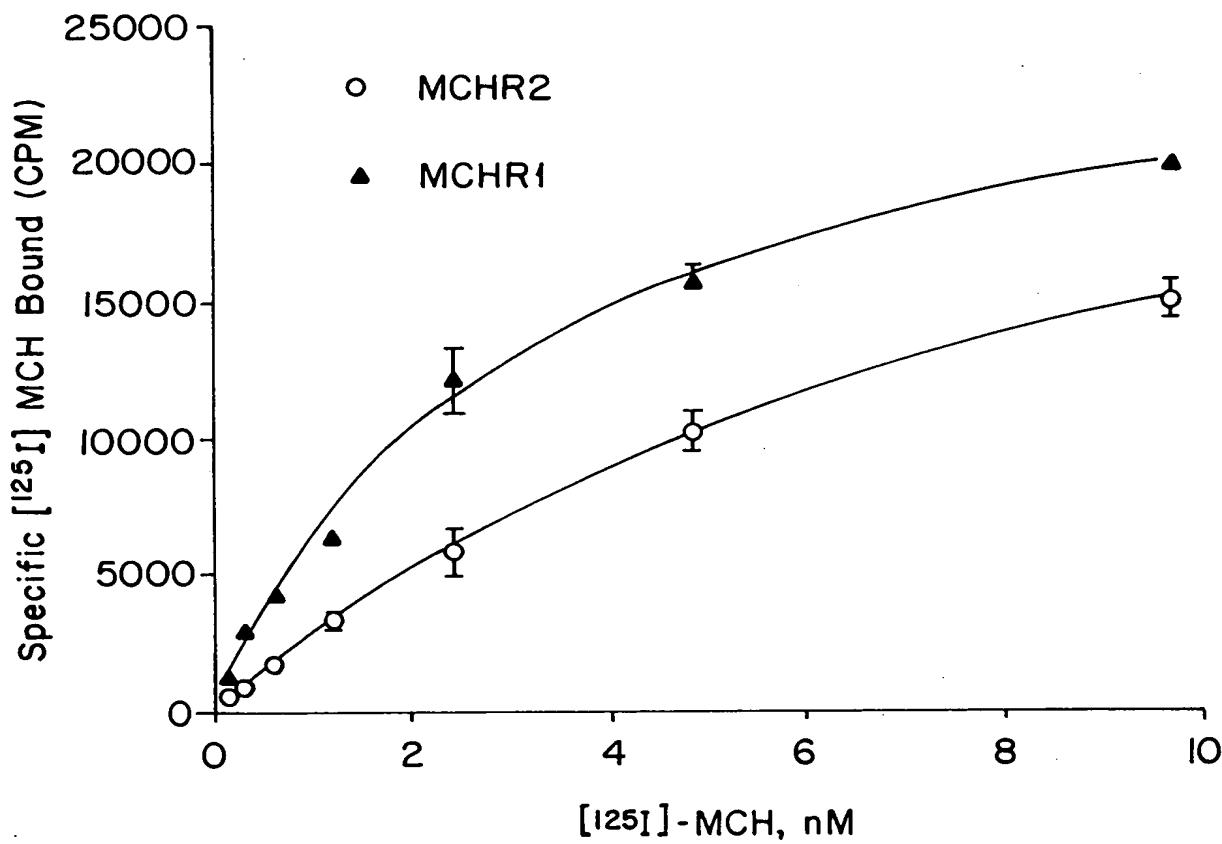
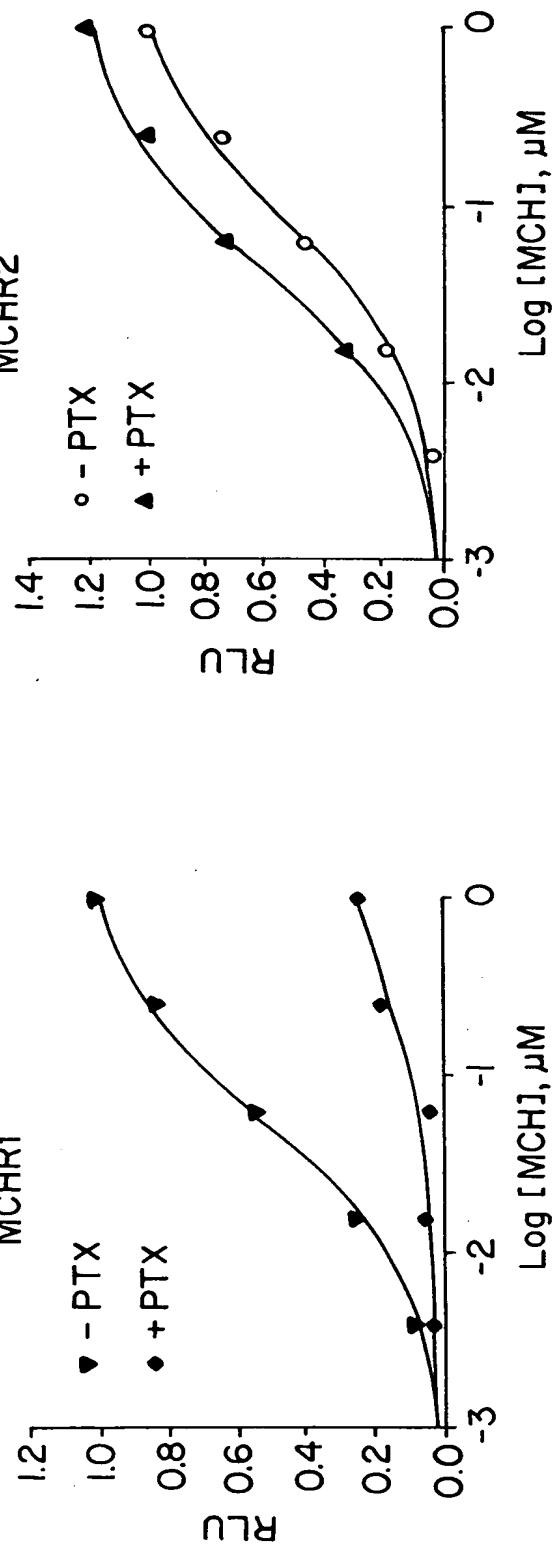


FIG. 6.

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MCHR2



MCHR1

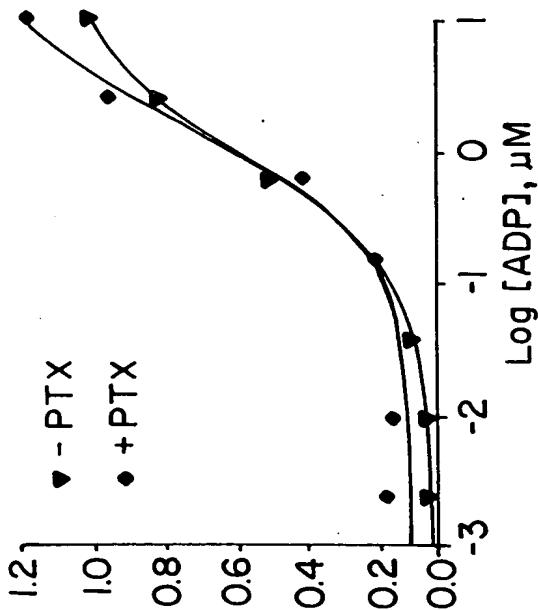
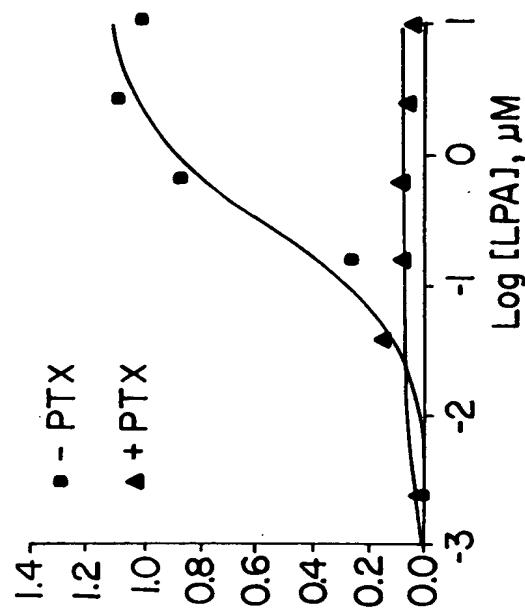
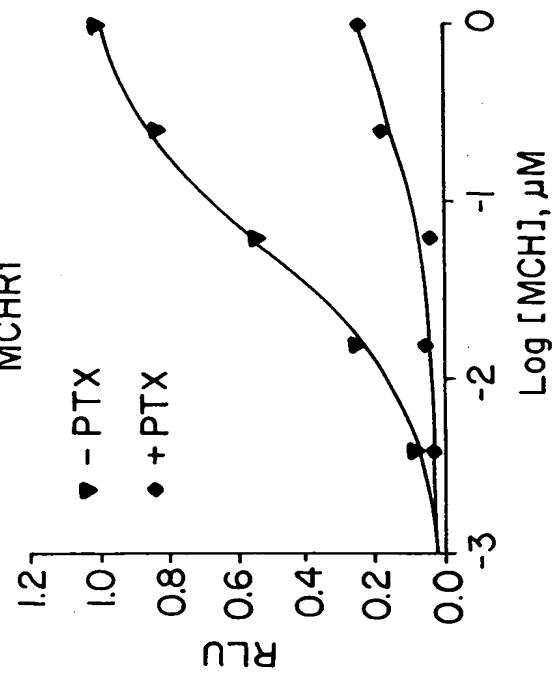


FIG. 7

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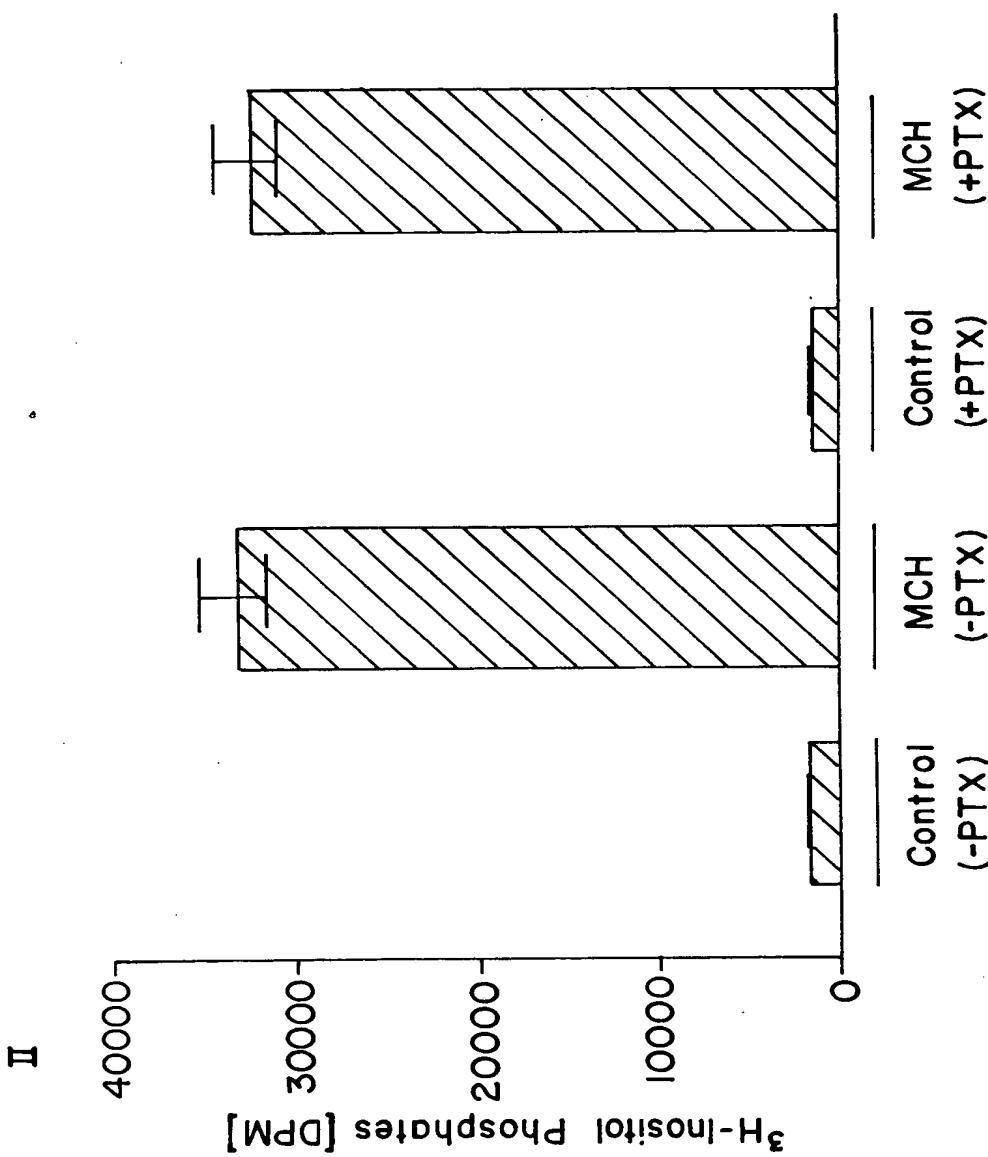
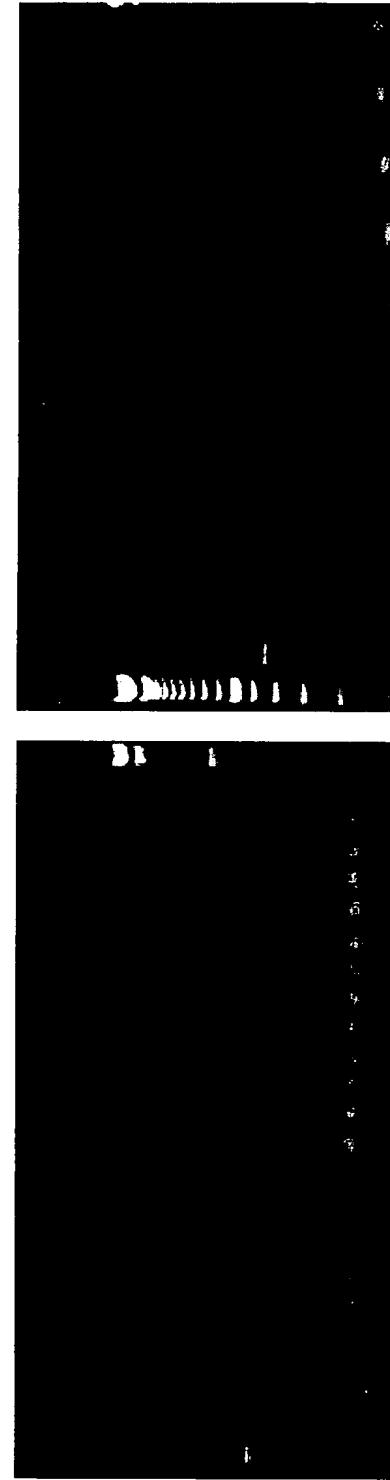


FIG. 8.

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FIG. 9A.  
FIG. 9B.



Hypothalamus

1. Hypothalamus
2. Whole Brain
3. Hippocampus
4. Pituitary Gland
5. Amygdala
6. Adipocyte
7. Pancreas
8. Adrenal Gland
9. Stomach
10. Small Intestine
11. Liver
12. Skeletal Muscle
13. Heart
14. Kidney
15. Placenta
16. Universal
17. Lung
18. Thymus
19. Spleen
20. Skin
21. Prostate
22. Colon
23. Subcutaneous Fat
24. Genomic DNA
1. Retina
2. Leukemia, promyelocytic
3. XG prostatic adenocarcinoma
4. XG ovarian carcinoma
5. XG renal carcinoma
6. Leukemia, lymphoblastic
7. Colorectal adenocarcinoma
8. XG melanoma
9. Lymphoma, Raji
10. Fetal brain
11. Hela
12. XG Lymphoma, Daudi
13. XG Lung carcinoma
14. Leukemia, myelogenous
15. XG mammary carcinoma
16. XG colon adenocarcinoma
17. XG glioblastoma
18. genomic

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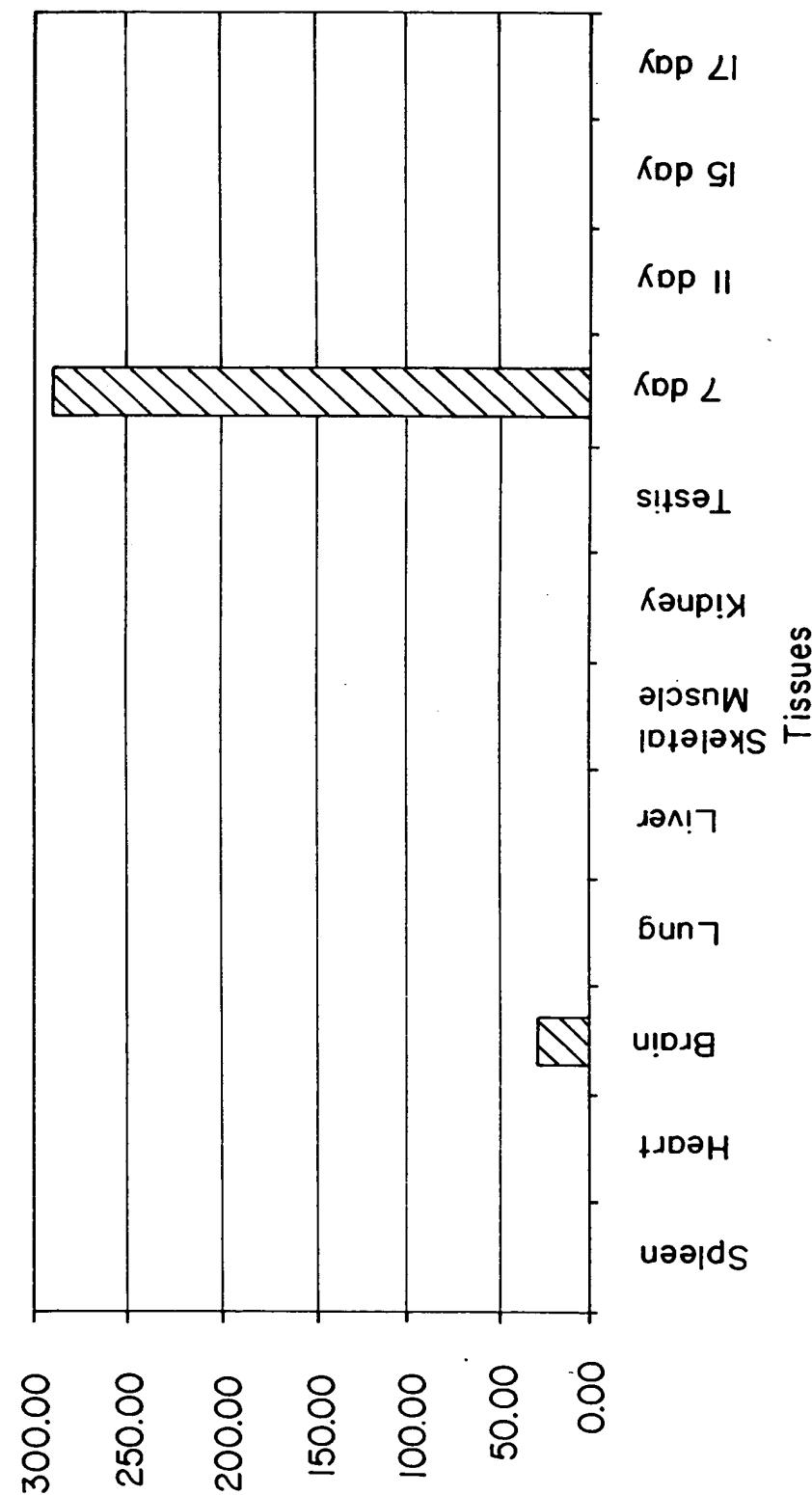


FIG. 10A.

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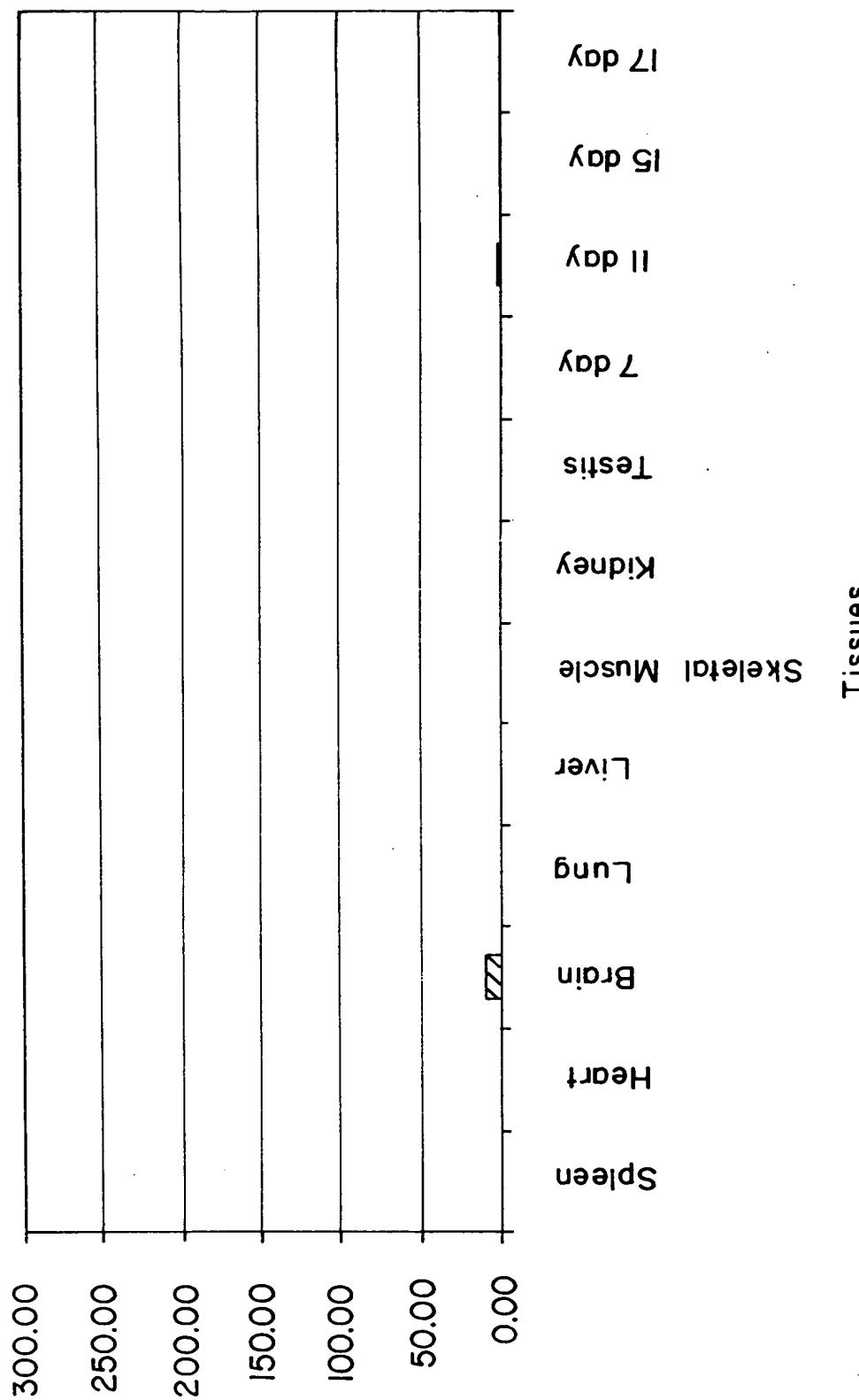


FIG. 10B